

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 03/062256 A1

- (51) International Patent Classification⁷: C07H 19/00, A01N 43/04, A61K 31/70
- (21) International Application Number: PCT/US02/34026
- (22) International Filing Date: 23 October 2002 (23.10.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/350,296 17 January 2002 (17.01.2002) US
- (71) Applicant (*for all designated States except US*): **RIB-APHARM INC.** [US/US]; 3300 Hyland Avenue, Costa Mesa, CA 92626 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **AN, Haoyun** [US/US]; 7864 Paseo Tulipero, Carlsbad, CA 92009 (US). **DING, Yili** [US/US]; 16655 Mt. Michaelis Circle, Fountain Valley, CA 92708 (US). **SHAW, Stephanie** [US/US]; 29 S. 5th Street, #D, Alhambra, CA 91801 (US). **HONG, Zhi** [US/US]; 79 Timberland, Aliso Viejo, CA 92656 (US).
- (74) Agents: **FISH, Robert et al.**; Rutan & Tucker, LLP, P.O. Box 1950, 611 Anton Blvd., Fourteenth Floor, Costa Mesa, CA 92628-1950 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— with amended claims
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: 2'-BETA-MODIFIED-6-SUBSTITUTED ADENOSINE ANALOGS AND THEIR USE AS ANTIVIRAL AGENTS

(57) **Abstract:** Various 2'-beta-methyl-6-substituted adenosine analogs (including 2,6-disubstituted adenosine, 8-aza-6-substituted adenosine, and 2-aza-6-substituted adenosine) are prepared by conventional and combinatorial library approaches. Contemplated compounds are particularly useful as therapeutic agents, and especially as antiviral agents.

WO 03/062256 A1